

ABSTRACT

The invention relates to an ultrasonic sensor for an ultrasonic flow measuring device (1). In order to be able to couple as great a fraction as possible of the ultrasonic measuring signals into the medium (4) to be measured, the ultrasonic sensor (5, 6) is provided with a cup-shape and includes a housing (12) and an oscillatable unit (16) for producing the ultrasonic signals. The oscillatable unit (16) is composed of a plurality of components (9, 10, 17, 18) and is so embodied that it has a node plane (13), which is oriented essentially perpendicularly to the radiating or receiving direction of the ultrasonic measuring signals. At least a portion of the outer surface (14) of the oscillatable unit is connected with the housing (12) in the region of the node plane (13) of the oscillatable unit (16).